- (b) a nucleotide sequence encoding a protein having the amino acid sequence of SEQ ID NO: 3 which has piperidine-6-carboxylic acid dehydrogenase activity, or a complementary strand thereof;
- (c) a nucleotide sequence consisting of nucleotides 2855 to 4387 of SEQ ID NO: 2 encoding a protein having piperidine-6-carboxylic acid dehydrogenase activity, or a complementary strand thereof;
- (d) a nucleotide sequence consisting of nucleotides 2077 to 4578 of SEQ ID NO: 2 encoding a protein having hiperidine-6-carboxylic acid dehydrogenase activity, or a complementary strand thereof;
- (e) a nucleotide sequence which has at least 70% homology with the nucleotide sequence of (c) encoding a protein having piperidine-6-carboxylic acid dehydrogenase activity, or a complementary strand thereof;
- (f) a fragment of nucleotide sequence (a) or (b) encoding a protein having piperidine-6-carboxylic acid dehydrogenase activity, or a complementary strand thereof; and
- (g) a nucleotide sequence which hybridizes under stringent conditions to sequence (a), (b), (c), (d), (e) or (f).
- 17. (New) The isolated nucleotide sequence according to claim 16, which is the nucleic acid sequence of SEQ ID NO: 2 encoding a protein having piperidine-6-carboxylic acid dehydrogenase activity, or a complementary strand thereof.

18. (New) The isolated nucleotide sequence according to claim 16, which is the nucleotide sequence excoding a protein having the amino acid sequence of SEQ ID NO: 3 which has piperidine-6-carboxylicacid dehydrogenase activity, or a complementary strand thereof.

- 19. (New) The isolated nucleotide sequence according to claim 16, which is the nucleotide sequence consisting of nucleotides 2855 to 4387 of SEQ ID NO: 2 encoding a protein having piperidine-6-carboxylic acid dehydrogenase activity, or a complementary strand thereof.
- 20. (New) The isolated nucleotide sequence according to claim 16, which is the nucleotide sequence consisting of nucleotides 2077 to 4578 of SEQ ID NO: 2 encoding a protein having piperidine-6-carboxylic acid dehydrogenase activity, or a complementary strand thereof.
- 21. (New) The isolated nucleotide sequence according to claim 16, which is the nucleotide sequence which has at least 70% homology with the nucleotide sequence of (c) encoding a protein having piperidine-6-carboxylic acid dehydrogenase activity, or a complementary strand thereof.
- 22. (New) The isolated nucleotide sequence according to claim 16, which is the fragment of nucleotide sequence (a) or (b) encoding a protein having piperidine-6-carboxylic acid dehydrogenase activity, or a complementary strand thereof.
- 23. (New) The isolated nucleotide sequence according to claim 16, which is the nucleotide sequence which hybridizes under stringent conditions to sequence (a), (b), (c), (d), (e) or (f).
- 24. (New) The isolated nucleotide sequence according to claim 16, which is obtained from a bacterium belonging to Flavobacterium lutescens.

- 25. (New) A nucleic acid construct comprising the nucleic acid sequence according to claim 16.
- 26. (New) The nucleic acid construct according to claim 25, which is contained in <u>Flavobacterium lutescens</u> IFO 3084 (pCF213) deposited under accession number FERM BP-6797.
- 27. (New) A host cell comprising the nucleic acid construct according to claim 25, wherein the nucleic acid sequence encodes a protein having piperidine-6-carboxylic acid dehydrogenase activity.
- 28. (New) A process for producing L-homoglutamic acid, which comprises culturing the host cell according to claim 27 under suitable conditions to produce the protein in the presence of 1-piperidine-6-carboxylic acid, and recovering L-homoglutamic acid.
- 29. (New) The process according to claim 28, wherein the host cell is a bacterium belonging to the genus <u>Flavobacterium</u>.
- 30. (New) The process according to claim 28, wherein the host cell is <u>Flavobacterium</u> <u>lutescens</u> IFO 3084 (pCF213) deposited under accession number FERM BP-6797.

IN THE SEQUENCE LISTING

Please replace the Sequence Listing with the attached revised Sequence Listing.